

University of Maryland at College Park

OUTLOOK

April 10, 1989

First UMCP Lilly Teaching Fellows Named

Last semester UMCP was selected as one of only three research universities nationwide to receive Lilly Endowment grants supporting a Teaching Fellows Program for junior faculty.

A seven-member committee, co-chaired by Kathryn J. Mohrman, dean of Undergraduate Studies and Maynard Mack Jr., associate professor in the Dept. of English, has now completed an extensive evaluation process and has selected seven UMCP junior faculty members as Lilly Teaching Fellows for 1989-1990.

They are: Kent Cartwright, English; Joan Frosch-Schroder, Dance; W. Andrew Marcus, Geography; Joy A. Mench, Poultry Science; Sheri L. Parks, Communication Arts and Theatre; Mary Corbin Sies, American Studies; and Gerald S. Wilkinson, Zoology. All are assistant professors. Announcements were made at a reception in the Rossborough Carriage House March 29.

Each fellow will work on an individual project focused on an aspect of undergraduate teaching and each will receive guidance and support from a senior mentor in the same or related discipline. Fellows also will be selected during the next two years.

The Lilly Teaching Fellows will receive one-third release time from normal teaching or other campus duties and summer support for the project, will participate in monthly Fellows seminars on campus and attend two conferences with Fellows



President William E. Kirwan, left, congratulates first Lilly Teaching Fellows. Left to right are: Sheri L. Parks, Kent Cartwright, Joy A. Mench, Maynard Mack Jr., co-chair of selection committee, Joan Frosch-Schroder, W. Andrew Marcus, Gerald S. Wilkinson, Kathryn Mohrman, co-chair of selection committee, and Mary Corbin Sies.

from across the country, and will participate in a new spring teaching conference at UMCP.

Cartwright's project, The Renaissance Classroom, will contrast the Renaissance university with the modern American university. Cartwright plans to embrace education,

teaching and learning as themes, images and experiences for characters and spectators in Shakespearean drama.

Through this research he plans to devise syllabi for Shakespeare courses that foster in students an historical consciousness about Renaissance learn-

ing and a self-awareness about their own education; develop and offer repeatable workshops for teachers of introductory Drama, Shakespeare, or other English courses on the "idea" of

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Microbiology Celebrates New Home

The Department of Microbiology celebrates the opening of the remodeled Microbiology Building this weekend with a special symposium and an open house.

On Friday, April 14 in Room 1240 of the Zoology/Psychology Building, the department will sponsor a symposium for the campus and general public titled "Microbiology Today: New Triumphs Unfolding."

From 1-5 p.m., three microbiology professionals will speak on the current accomplishments and the exciting future of microbiological science. Two of the speakers are UMCP graduates, including Walter Dowdle, UMCP microbiology graduate and acting director of the Centers for Disease Control in Atlanta. He will

speak on "Eliminating Infectious Disease." See the calendar on page 4 for more details.

On Saturday, April 15, the department will host a private program and luncheon for university officials and microbiology alumni.

"We're hoping to impress our graduates with the continued growth of the department in addition to this wonderful new facility," says Frank Hetrick, professor of microbiology and open-house coordinator. "We want to show off our new building."

The department will "show off" the building beginning at 2 p.m. on Saturday with an open house for the general public. Laboratories will have posters to explain the research being conducted there. Graduate and



undergraduate students in microbiology will serve as guides and answer questions about teaching and research programs.

The microbiology department, once located in Skinner Building, moved to this remodeled building in January 1988. According to Hetrick, they are having the open house now because it has taken a long time to set up the laboratories and equipment.

"In fact," he says, "some equipment and furniture is still arriving."

Hetrick and the department encourages all faculty and staff who are interested to attend the symposium and wander through the building on Saturday afternoon.

For more information, call the microbiology department at 454-2848. ■

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Richard Payne

Payne Receives Award to Further His Research

Richard Payne, assistant professor of zoology recently was recognized for his promising research on eyesight. Payne was selected as an Alfred P. Sloan Research Fellow and will receive a two-year, \$25,000 grant to support his research beginning in September 1989. He uses horseshoe crabs to study how light signals are converted in the eye to electrical signals.

RESEARCH HIGHLIGHTS

MIST Program Introduces New Way to Study Science

Students at Paint Branch Elementary School in College Park and the Lida Lee Tall Learning Resources Center in Towson are learning science in a new and somewhat revolutionary way — thanks to an innovative education resource from England.

The two schools are the only schools in the United States to be currently testing the Modular Investigations into Science and Technology (MIST) program, according to Jim Greenberg of UMCP's College of Education. Greenberg is the project director.

The MIST program, which was developed three years ago in England, stimulates real scientific experience through short open-ended visual sequences from a series of videodiscs.

Every videodisc contains over 40 self-contained modules that last approximately three minutes and illustrate a principle in science within the category of the videodisc.

The MIST program is set up to encourage children to ask questions and conduct their own investigations, says Greenberg.

"Everyone is talking about the woeful state of science education at the elementary level in this country and the need for more motivation," says Greenberg. "With MIST the children are being encouraged to think and ask questions for themselves, instead of being told information and then spitting it back."

Greenberg first saw the MIST program demonstrated in England. He became involved with field testing the program when one of the program creators and a colleague of Greenberg's, Colin Mably of North East London Polytechnic suggested trying to field test MIST in the U.S.

The U.S. project is being supported by a research grant that Greenberg



Students in Pat Drizd's Paint Branch Elementary School science class have been participating in the MIST program since last September.

received from North East London Polytechnic in cooperation with Evergreen Communications, a THORN EMI Company that supports the development of MIST.

Thus far, the program, which will be throughout the school year, has received rave reviews from students, teachers and administrators at the two schools, says Greenberg. He adds that he hopes the program can eventually be made available to U.S. school systems.

Elementary science education students, under the direction of professor George Eley of the College of Education's Science Teaching Center,

have also been field testing the MIST materials.

Paint Branch Elementary science teacher Pat Drizd is enthusiastic about the program.

"I have two active classrooms full of children who become very tired at the end of the day, and the MIST program can always get their attention," says Drizd, who has been at Paint Branch for 17 years.

MIST, says Greenberg, is a resource for teachers to use in their own way — at the beginning, middle or end of a particular lesson and in any context.

Drizd says that she often lets a small group of students work in-

dependently with the program.

"The teachers can control how it's used, instead of the other way," says Greenberg.

Greenberg feels that, overall, the MIST program is a more realistic approach to studying science than current methods.

But the program has done more than present a new and challenging way to teach and learn science. It also has been a lesson in culture.

Drizd still recalls the first time she introduced the program, which uses English children to demonstrate various scientific experiments, to her class last September.

"The first thing they noticed was the English accent and then the way the children usually dressed alike in uniforms," she says.

She adds that the English children with their quiet politeness often have a calming effect on her active classes.

But the students in the classroom aren't the only ones benefiting from the cultural exchange via modern technology.

Recently a group of teachers and administrators from Paint Branch and the Lida Lee Tall Learning Resource Center, as well as a group of English administrators and teachers, traded visits. They stayed in each others' homes and visited each others' school systems.

"The participants found the exchange to be a marvelous and unique staff development opportunity," says Greenberg. ■

—Lisa Gregory

Business Incubator Company Offers Superconductivity Testing Services

Physical Dynamics, Inc., (PDI), a participant in the Technology Advancement Program, UMCP's high technology business incubator, has developed a superconductivity characterization service that can test a variety of high temperature superconducting powder samples at reasonable prices.

Since its founding in 1987, PDI has tested more than 100 different kinds of high temperature superconducting powders, thin films, wires and assorted sintered materials.

Last year, PDI was awarded a \$49,000 grant by the Maryland Industrial Partnerships program to study, in conjunction with the UMCP physics department, several additional promising superconductivity testing techniques.

"The synergy of these various efforts has culminated in what may be one of this fledgling industry's first profitable business enterprises," says Fred Durr, PDI's president and CEO.

"We offer an expertise and background of experience in the

characterization of these materials which many of our customers have found essential in determining whether or not they have produced a truly superconducting compound." Having this information, he adds, is critical to further research and development activities.

The firm serves a wide range of business, government and public institutions and provides tests for microwave absorption, D.C. and A.C. magnetic susceptibility and A.C. resistance. ■

Leatherman On Blue-Ribbon Commission

Stephen P. Leatherman, director of the UMCP Laboratory for Coastal Research, and a member of the geography department faculty, was one of 17 nationally respected authorities who served on a special commission charged with evaluating the research and resource management policies of the National Park Service.

Established by the National Parks and Conservation Association, the

commission was charged with reevaluating a 1963 report that has served as the foundation of national park management philosophy for 25 years.

In addition to Leatherman, who is an expert on atmospheric an climatic trends and chairs the board of the Climate Institute, the commission included authorities in such areas as history, anthropology, social science,

forest ecology, archaeology, and wildlife biology.

The commission's findings and conclusions were made public last month during a symposium in Washington, D.C. NPCA President Paul C. Pritchard said he hoped the commission's report would initiate new discussion on the future role of science and resource protection in the National Park Service. ■

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor Outlook, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 454-5335.



Workshop Will Teach Practical Negotiation Skills

The next Human Relations Skills Development Workshop will take place on Thursday, April 13 from 9 a.m. to 4 p.m. in the Prince Georges Room of the Stamp Student Union. The session, "Negotiation: Practical Skills for Producing Fair, Durable and Efficient Agreement," will help participants explore the way to negotiate on the merits of an issue rather than on the emotions of the situation. The cost is \$20; lunch is provided. Call 454-4124/4707 for info.

What Will You Do With Your Summer Vacation (And Beyond)?

You can steer students to a good summer job by announcing that the 1989 Job Fair will be held from 12 noon to 4 p.m. on Wednesday, April 12 in the Grand Ballroom of Stamp Student Union. More than 100 organizations will be represented, looking to fill summer, part-time, permanent and co-op positions. Students can get a job description booklet and other information by calling 454-4582. The job fair is sponsored by the Career Development Center, MBA Placement Office, Office of Experiential Learning, Engineering Co-op, and the Job Referral Service.

Seven Junior Faculty Members Awarded Lilly Fellowships

continued from page 1

the class; and prepare a scholarly article and public lecture on the concept of learning in Shakespeare. Cartwright's mentor is Eugene R. Hammond, associate professor of English.

Frosch-Schroder's project is the creation of "Dance in World Cultures," a course intended to enrich the undergraduate curriculum, serve the new requirements of general education and examine dance in a selection of non-Western cultures in its historical and societal context.

"Dance in World Cultures" is a pioneering effort in the field of general education and will draw heavily upon the newly emerging disciplines of dance ethnology, anthropology of dance and the more established discipline of ethnomusicology, in addition to the traditional social sciences, arts and humanities," Frosch-Schroder says. Her mentor is Carol Robertson, associate professor in the Dept. of Music.

Marcus will develop a capstone course in geology for his Lilly project. During this course development, he will research field sites, create field exercises, acquire funding, purchase

equipment and prepare lecture notes. Marcus says the course will place students in an "active" learning environment, where they will initiate, conduct and complete real-world projects.

"Courses with this type of structure can promote a great deal of student enthusiasm for the subject, both because of the pride of creation they take in their work and because of the realization that the knowledge they have gained can be used to tackle substantive problems which concern them," Marcus says. His mentor is Robert D. Mitchell, associate professor in the Dept. of Geology.

Mench is developing a course to be titled, "Animal Welfare: Analysis of Social and Ethical Problems." The course will enable students to understand the ethical, historical and cultural factors that have shaped human attitudes toward animals. Mench plans to introduce students to scientific studies on the understanding of the similarities and differences between humans and animals, present scientific approaches to the study of animal well-being, and initiate discussion of the ethical concerns associated with various facets of animal use in

contemporary America and how these concerns should be addressed by society at a whole.

Parks will be working on a project titled, "Using the Whole Teacher: Gender, Culture and Pedagogical Consistency." Her investigation is "A logical step to the empowerment of other voices in the university. The general question of inquiry is: How do women and minorities best filter classroom style and material through their own cultural history? The proposed product is a set of historically based, alternative teaching models useful to instructors, including me, who find the traditional models of delivery inconsistent with their gender, culture or personal style," Parks says. Edward L. Fink, professor, Dept. of Communication Art and Theatre, is her mentor.

Sies will create a course titled, "Technology and American Culture." As a graduate assistant at the University of Michigan, she received an Excellence in Teaching Award for providing her students with opportunities to engage critically in topics ranging from the history of architecture to the history of American Studies. At UMCP she has a reputation as a sensitive and

thought-provoking teacher committed to enriching undergraduate education. Her proposed course will help vocationally oriented students look at their career specialties with humanistic and social scientific perspectives. Sies' mentor is Hasia Diner, associate professor, Dept. of American Studies.

Wilkinson will work on a freshman seminar designed to develop thinking skills in science students. "The class would pursue directed reading and discussion of topics that involve technological advance at some cost to the quality of life," Wilkinson says. He says potential questions include: Does sequencing the human genome solve the nature/nurture problem? Will computer literacy result in increased creativity? Are pesticides necessary? Do we need to clone a better cow? Wilkinson plans to put students in work groups to present oral summaries of their findings and have each student write essays arguing their points. Essays will be evaluated for logic, style and content by Wilkinson and members of the class. Wilkinson's mentor will be Herbert Levitan, professor, Dept. of Zoology. ■

—Fariss Samarrai

Forum Examines Ways to Improve Undergraduate Teaching

An open forum on "Incentives and Rewards for Excellence in Undergraduate Teaching" will be held from 3-4:30 p.m. on April 11 in Room 0102 Francis Scott Key. The forum, part of the implementation of the Pease report on undergraduate education, follows on the heels of three focus groups on the topic during March, which included students, faculty, and deans or department chairs. Dean for Undergraduate Studies Kathryn Mohrman heads the implementation effort.

Students, faculty and administrators are urged to share their ideas with the special committee which is investigating how to encourage and reward excellent undergraduate teaching at College Park. The April session will be chaired by Janet Hunt (Sociology) and special committee chairperson Kathryn Theus (Education Policy, Planning and Administration and National Center for Postsecondary Governance and Finance).

Information from the forum, as well as from the focus groups, will

form the basis for a campus-wide incentive survey to be fielded in late April. Findings will guide the Implementation Committee as it formulates and recommends campus policy on incentives and rewards for undergraduate teaching.

The importance of developing appropriate standards of teaching performance, course evaluation, and tenure and promotion criteria that include teaching measures was underscored in the Pease report which was adopted by the Campus Senate in the spring

of 1988.

Members of the Committee on Rewarding Undergraduate Teaching include: Marilyn Berman (Engineering), Thomas Berry and Elke Frederiksen (Germanic and Slavic Languages), Jean Grambs (emeritus, Human Development), Jim Greenberg (Education, Laboratory Experiences), Edward Locke (Business), Joe Oppenheimer (Government and Politics), David Sammons (Agronomy), Steve Seldon (EDPA), and E.P. Young (Animal Sciences). ■

Eisner to Speak at Anderson Lecture



The featured speaker at this year's College of Education's 17th Annual Vernon Anderson Lecture is Elliot W. Eisner, professor of Education and Art

at Stanford University. The lecture will be held April 12 in the Colony Ballroom of the Stamp Student Union. In addition to Eisner's presentation, awards will be presented to two outstanding graduating seniors in the College of Education. Interested faculty members and students are invited to attend the lecture and program, which begins at 1 p.m.

Eisner will be speaking on "The Potential of Qualitative Inquiry for Educational Practice." He received his bachelor's degree from Roosevelt University in Chicago, Master of Science degree from the Illinois Institute of Technology, Master of Arts and Doctor of Philosophy degrees from the University of Chicago. Today he works in three fields—art education, curriculum, and educational evaluation. Eisner has authored and edited 10 books in the field of

education. The lecture is jointly sponsored by the Education Alumni Chapter of the University of Maryland Alumni Association-International and the faculty of the College of Education. Created in 1973, the College of

Education's Vernon Anderson Lecture is held annually to honor Vernon E. Anderson, who served as dean of the College from 1955 to 1970. For more information on the lecture call 454-2014. ■

Funds Increased to Improve Instruction

Kathryn Mohrman, Dean of Undergraduate Studies, has announced a substantial increase in funds available for the support of undergraduate teaching at UMCP.

Designed to support creative projects, the funds could be used to develop new courses, revise existing courses, develop new teaching materials, integrate technology into courses, design projects for faculty development and TA training, or used to improve undergraduate education

in other innovative ways.

Grant funds may support salaries, operating expenses, equipment and other necessary costs. For 1989-90, the maximum amount for a single award is \$20,000. Applications are due by April 17.

For information about priorities and guidelines for proposals or to receive an application, call Roger McIntire, Associate Dean for Undergraduate Studies, 454-6231. ■

Calendar

April 10 — April 19

Join the Retired Volunteer Service Corps Lunch Bunch

Members of the Retired Volunteer Service Corps are meeting every Thursday from 12:30-1:30 p.m. in room 0110A of Hornbake Library. When you're on campus helping as a volunteer, stop by to meet some of your colleagues and find out what they are doing. Bring your lunch; beverages and good conversation will be provided. For more information, contact Nancy Bruns, senior programs coordinator, at 454-4767.

10 MON

International and Agricultural Life Sciences Lecture: "Communications for Technology Transfer in Agriculture—Lessons from Niger," Michael Yates, Agency for International Development, noon, 0115 Symons Hall. Call x4933 for info.

General Relativity Seminar: "Time and the Interpretation of Canonical Quantum Gravity," Robert Wald, U. of Chicago, 3 p.m., 1126 Physics Bldg. Call x3501 for info.

CHPS Lecture: "Why Scientists Behave Scientifically," David Hull, Northwestern U., 3:30 p.m., 1117 F. S. Key Hall. Call x2850 for info.

Computer Science Colloquium: "Characterizations of Parallelism in Applications and Their Use in Scheduling," Kenneth C. Sevcik, U. of Toronto, 4 p.m., 0111 Classroom Bldg. Call x4244 for info.

Nuclear Experimental Seminar: "Spin and Strangeness in the Nucleon," Robert McKeown, California Institute of Technology, 4 p.m., 1113 Computer Science Bldg. Call x3501 for info.

Space Science Seminar: "Global Magnetohydrodynamic Simulations of the Magnetosphere," Raymond Walker, UCLA, 4:30 p.m., 1113 Computer & Space Sciences Bldg. Call x3136 for info.

Faculty Chamber Recital, program TBA, 8 p.m., Tawes Recital Hall. Call x6669 for info.

11 TUE

Israeli Art Show, featuring an extensive collection of contemporary Israeli art, today through April 18, Hillel Jewish Student Center. Call 422-6200 for info.

Zoology Seminar: "Theories of Biological Classification: What Difference Does it Make?" David Hull, Northwestern U., noon, 1208 Zoo/Psych. Bldg. Call x3203 for info.

Statistics Lecture: Title TBA, Erich Lehmann, U. of California at Berkeley, 2 p.m., 0126 Armory Bldg. Call x5995 for info.

Dynamical Systems and Accelerator Theory Seminar: "Report on Highlights of Chicago Accelerator Conference," Rui Li and Govindan Rangarajan, 2 p.m., 1126 Physics Bldg. Call x3501 for info.

CHPS Lecture: Title TBA, David Hull, Northwestern U., 3:30 p.m., 1117 F. S. Key Hall. Call x2850 for info.

Physics and Astronomy Colloquium: "The Ecology of Computation," Xerox Corporation, 4 p.m., 14101412 Physics Bldg. Call x3512 for info.

Student Dance Concerts, today through April 14, 8 p.m., Dance Department's Studio Theater, \$7 and \$5. Call x4056 for info.

12 WED

History Conference: "Cultivation and Culture: Labor and the Shaping of Slave Life in the Americas," today through April 14. Call x2843 for a complete conference program.

Employee Development Seminar: "Developing a Professional Image Through Positive Communication," featuring training specialist from State of Maryland, Clerical Training Institute, 9 a.m.-4 p.m., 2110 Center of Adult Education, \$30. Call x4811 for info.

Counseling Center Brown Bag Lecture: "Reflections on Our Experiences as Support Group Leaders for Persons Living with AIDS," Greig Stewart and Sam Sappington, noon, 0106 Shoemaker Bldg. Call x2931 for info.

Senior Citizen Housing Seminar: "You and Your Aging Relatives: Exploring Alternative Housing Arrangements," featuring Ralph Bennett, Billie Frazier and Leslie James, noon, Maryland Room, Marie Mount Hall. Call x4811 for info.



History Conference Opening Address: "Slaves, Slavery, and Labor," Barbara Jeanne Fields, Columbia U., time and place TBA. Call x2843 for info.

1989 Vernon E. Anderson Education Lecture: "The Potential of Qualitative Inquiry for Educational Practice," Elliot W. Eisner, Stanford U., 1 p.m., Colony Ballroom, Stamp Union. Call x2014 for info.

CLIS Colloquium: "Federal Government Information Policy," Nancy Carol Kranich, New York U., 1-3 p.m., 0109 Hornbake Library. Call x6003 for info.

High Energy Seminar: "Recent Results From the Fermilab Wimp Search," Michael Tartaglia, Michigan State U., 4 p.m., 1304 Physics Bldg. Call x3501 for info.

Art Exhibit: "Peruvian Pre-Columbian Art," today through May 27, Parents Association Gallery, reception, 6:30 p.m. today, place TBA. Call x4306 or x8309 for info.

13 THU

Human Relations Skills Development Workshop: "Negotiation:

Practical Skills for Producing Fair, Durable and Efficient Agreements," Gabriel Lopez, Coverdale Organization, 9 a.m.-4 p.m., Prince Georges Room, Stamp Union. Call x4124 for info.

Continuing Medical Education Lecture: "Breast Masses in Young Adults," Katherine Alley, M.D., 12:30-1:30 p.m., 3100E Health Center. Call x4928 for info.

Meteorology Seminar: "New Results on the Stability of Three-Dimensional Rotating Boundary Layers," Alan Faller, 3:30 p.m., 2114 Computer & Space Sciences Bldg. Call x2708 for info.

CHPS Lecture: "The Recombinant DNA Controversy: A Scientist's Perspective," Susan Gottesman, National Institutes of Health, 3:30 p.m., 1117 F. S. Key Hall. Call x2850 for info.

Graduate Student Association Meeting, 4:30 p.m., location TBA. Call x0145 for info.

Hillel House Lecture: "Blacks and Jews in American History," Julius Lester, U. of Massachusetts, Amherst, 7:30 p.m., Hillel Jewish Student Center, 7612 Mowatt Lane. Call 422-6200 for info.

University Theatre Production: "The Empire Builders" by Boris Vian, April 13-15 at 8 p.m., \$7 and \$5.50, Tawes Theatre. Call x2201 for info.

14 FRI

Neurosciences and Behavior Seminar: "Functional Neuroanatomy of Epilepsy," Karen Gale, Georgetown U., noon, 1208 Zoo/Psych. Bldg. Call x3202 or x6378 for info.

Geography Brown-Bag Seminar: "Bamboo Forest Dynamics and Implications for Panda Conservation in Southeast China," Alan Taylor, noon, 1179 LeFrak Hall. Call x2241 for info.

Mental Health Lunch 'N Learn Conference: "Alcohol and Drug Interventions: Helping Those Who Don't Want Help," Mary Sitar, Montgomery General Hospital, 1-2 p.m., 3100E Health Center. Call x4925 for info.

Microbiology Symposium Lecture: "Secondary Metabolism In All Its Glory," Arnold Demain, M.I.T., 1 p.m., 1240 Zoo/Psych. Bldg. Call x2848 for info.

Microbiology Symposium Lecture: "Recent Advances in Biotechnology: The Crucial Role of Microbiology," Susan Henry, Carnegie Mellon U., 2:30 p.m., 1240 Zoo/Psych. Bldg. Call x2848 for info.

Music Lecture: featuring music critic Harold Schonberg of the *New York Times*, speaking on how pianists can listen to recordings of great singers to learn phrasing and elements of interpretation, 2:30 p.m., 3206 Hornbake Library. Call x6903 for info.

Squeezed State Seminar: "Two-mode Squeezed States," Y. S.

Kim, 3 p.m., 1219 Physics Bldg. Call x3501 for info.

Faculty Guild and A.A.U.P. Forum: "Appointments, Promotion and Tenure," featuring Richard Jaquith, Rose Marie Oster and Alan Pasch, moderated by Joseph Auslander, 3 p.m., 1213 Art/Sociology Bldg. Call x5005 for info.

Meteorology Seminar: "Progress in Understanding the Structure and Dynamics of Low-Frequency Atmospheric Variability," John Wallace, U. of Washington, 1989 Bernhard Haurwitz Memorial Lecturer, AMS, 3:30 p.m., 2114 Computer and Space Sciences Bldg. Call x2708 for info.

Microbiology Symposium Lecture: "Eliminating Infectious Diseases," Walter Dowdle, Centers for Disease Control, 3:45 p.m., 1240 Zoo/Psych Bldg. Call x2848 for info.

Electrophysics Seminar: "Optical Fiber Sensors," Ramon DePaula, 4-5 p.m., 1207 Laboratory for Energy Research. Call x6852 for info.

University Community Concert: Julianne Baird, soprano, Konrad Junghanel, lute, program TBA, pre-concert symposium at 6:30 p.m., performance at 8 p.m., Center for Adult Education, \$15 and \$13.50. Call x6534 for info.

University Theatre Production: "The Empire Builders," see April 13 for details.

15 SAT

Microbiology Open House, 2-7 p.m., Microbiology Bldg. Call x2848 for info.

University Theatre Production: "The Empire Builders," see April 13 for details.

17 MON

Forum on Women's Issues in Mental Health: "Women in Recovery: Healing from Addictions," Marla Zipin, clinical social worker, noon, 1137 Stamp Student Union. Call x4925 for info.

International Agriculture and Life Sciences Lecture: "Biotechnology in Asia," Robert Yuan, noon, 0115 Symons Hall. Call x4607 for info.

Distinguished Scholar-Teacher Public Lecture: "Agriculture: Nature and Nurture," David Samons, 2 p.m., 2203 Art-Sociology Bldg. Call x4508 for info.

Science and Technology in their Social Context Lecture: "Technology and American Literature," Leo Marx, M.I.T., 3:15 p.m., 2203 Art/Sociology Bldg. Call x8862 for info.

Entomology Colloquium: "Dynamics of Spider Mite Resistance to Acaricides," Timothy Dennehy, New York Agricultural Experiment Station, 4 p.m., 0200 Symons Hall. Call x3843 for info.

Applied Agriculture Seminar: "Tree Pruning Tips," Gary Johnson, 4 p.m., IAA Classroom Bldg. Call x3938 for info.

Space Science Seminar: "The NSF Magnetospheric Physics Program and Some Personal Research," V. L. Patel, National Science Foundation, 4:30 p.m., 1113 Computer & Space Sciences Bldg. Call x3136 for info.

Peruvian Pre-Columbian Art Exhibit Lecture: "Lost Cities and Buried People," Abelardo Sandoval, curator, 5 p.m., Prince Georges Room, Stamp Union. Call x4306 or x8309 for info.

18 TUE

Zoology Seminar: "Plasmids and the Evolution of Virulence in the Plague Bacterium *Yersinia pestis*," Jon Goguen, U. of Massachusetts Medical School, noon, 1208 Zoo/Psych. Bldg. Call x3203 for info.

Graduate School Distinguished Lecture: "Gender and Knowledge: Orientalism, Imperialism and Women," Columbia U., 3:30 p.m., Architecture Auditorium. Call x2843 for info.

Meteorology Seminar: "What is Happening to the Ozone Layer," James Anderson, Harvard U., 4 p.m., 1410 Physics Bldg. Call x2708 for info. (reconfirm)

Dingman Center for Entrepreneurship Panel Seminar: "The Informal Venture Capital Market and its Impact for the Mid-Atlantic Region," 6:30-9:30 p.m., Greenbelt Marriott, \$30 (includes sandwiches and soft drinks). Call x8080 for info.

Band Concert, featuring the United States Air Force Band, 8 p.m., Tawes Theatre. Call x6803 for info.

19 WED

Counseling Center Brown Bag Lecture: "Factors that Influence Math Learning: A Study of the Persistence of Math 001 Students," Elizabeth Shearn, noon, 0106 Shoemaker Bldg. Call x2931 for info.

Literary Theory Lecture: "Sylvia Plath and 'Daddy,'" Jacqueline Rose, U. of Sussex, 3:30 p.m., 1400 Marie Mount Hall. Call x2511 for info.

Spanish and Portuguese Lecture: "Ramón J. Sender y la literatura del exilio," Francisco Carrasquer, U. of Leiden, 4:30 p.m., 1104 Jimenez Hall. Call x4305 for info.

Writers Here and Now Poetry Reading: Amy Clampitt will read from her works, 8 p.m., Katherine Anne Porter Room, 3rd Floor, McKeldin Library. Call x2511 for info.

* Admission is charged for this special event. All others are free.

Speakers Bureau Needs Experts to Speak Out

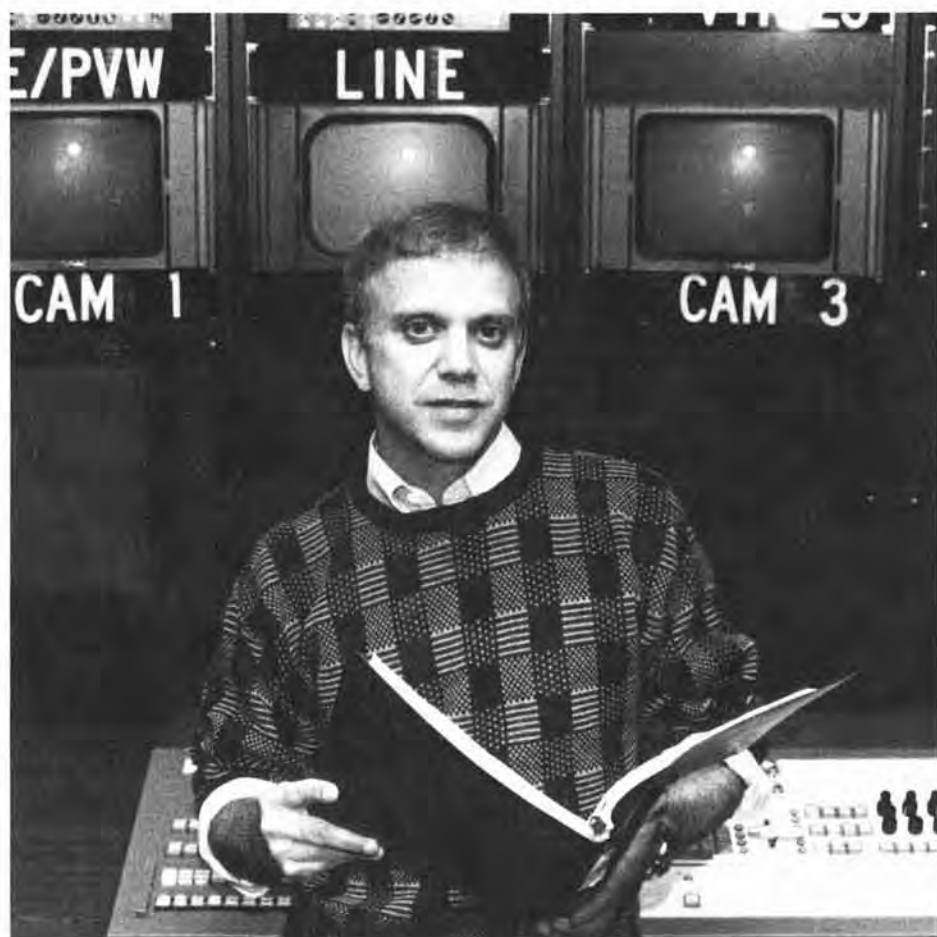
Do you know how to start a business? Are you knowledgeable about acid rain? What did you learn from your travels in China? These are just a few of the topics for which the University of Maryland Speakers Bureau needs speakers. There are 240 members in the Bureau, both faculty and associate staff. Last year there were 138 requests from public schools, community centers, federal and state agencies as well as other organizations. Most engagements are in the Maryland suburban area, though some were as far as Hagerstown. If you know it all about eating disorders, stress management or something else of interest—and are willing to discuss it with an interested audience—you should call 454-5777.

Blum to Sign Books in D.C.

Rick Blum, author of *Working Actors: The Craft of Television, Film and Stage Performance*, will sign copies of his book at Olsson's Bookstore, 1239 Wisconsin Ave., 6:30-8 p.m. Tues., April 18. Blum is an assistant professor of radio, television and film.

ARTS AT MARYLAND

Lesser Stars Shed Light on Acting in Scholar's New Book



Rick Blum

Aspiring actors can succeed in their craft without the blessing of stardom, Rick Blum says. Through perseverance, professionalism and an acceptance of the vagaries of their business, some actors earn a living and become widely recognized even if their faces never make the cover of *The Rolling Stone*. Blum has chosen these actors as role models for young actors in a new book on the profession.

The assistant professor of communication arts and theatre introduces

readers to this class of actors in a new book, *Working Actors: The Craft of Television, Film and Stage Performance*, published by Focal Press. The book features interviews with 11 actors who describe the profession and their own success in it.

"This book is meant for young actors, people who have an interest in making a career in this difficult profession," Blum says. "It offers solid observations about what it's like to be an actor today."

In selecting subjects for interviews, Blum searched for persons who

would represent a wide variety of experiences in the profession. The actors featured include: Dennis Patrick, a veteran of some 2,000 roles in television, theater and film; Katherine Helmond, a television and stage actress who has found herself typecast alternately as a dramatic and comic actress; Leslie Charleson, an actress who has worked in soap operas for most of her career; Lynne Moody, a young black actress who nearly quit the profession when she could not get hired following a highly acclaimed performance in *Roots*; Bart Braverman, a child actor who has struggled to find a niche in the profession as an adult; and Mel Blanc, an actor who made a career of doing cartoon voices.

While concentrating on rank-and-file actors, Blum also includes interviews with two actors who have starred in network television series — Harry Hamlin of *L.A. Law* and Robert Guillaume of *Benson*.

The interviews covered common topics that Blum thought would interest young actors. He questioned the actors about training, analyzing scripts, building characters, the rehearsal process, relationships with directors, acting environments, casting and coping with the uncertainties of the profession.

The need for a strong commitment to the craft was emphasized by all the actors.

"If you can make a living doing anything else and have a decent life — that's the choice you should make. If you feel you must act, that's another story. If you can't be anything but an actor, you'll find a way," Helmond told Blum.

Another common theme was the struggle to deal with the agonizing, and often frequent, waits between roles.

Moody told the poignant story of her drought of roles immediately following her successful performance as Alex Haley's great-grandmother in *Roots*. She was on the verge leaving the profession for law school before receiving another break.

"After being in the most popular show on television, to make that kind of history, you'd think (you'd) have at least one job in the offing. And nothing happened. It pained me deeply, inside. I realized that jobs were not happening the way I dreamed they should, so I had to take some control over my own life," she told Blum.

The actors attributed their success to a variety of factors. Mentioned most often were talent, training and luck. Hamlin grouped these factors into an equation.

"I believe that becoming successful is probably 10 percent talent, 10 percent training — and eighty percent luck. If you're in the right place at the right time, you'll do it. (However), there are thousands and thousands of extremely talented actors who can't get their foot in the door...If you're really serious about becoming an actor, perseverance is the most important thing."

Patrick talked about the virtues of being a working actor, even if one isn't a star.

"Actors like me who survive are not 'stars.' But we are well known. When I go to England or Ireland, I'm recognized on every airplane, in every damned hotel, every place I go. And I must say, people are getting very polite...(Some) actually name off (my) shows from theatre, television and motion pictures. Now that's very flattering," Patrick told Blum. ■

—Brian Busek

End-of-the-Semester Performances Cap Busy Music Year

End-of-the-semester performances are usually the seasonal highlights for any music group involving students, becoming a chance to showcase new material learned and new techniques mastered.

College Park audiences are in luck this year with a particularly rich variety of concerts to choose from coming up in late April and May. And in the selection listed here, the price is right—free, with no tickets needed!

Among the highlights in the near future are the Symphonic Wind Ensemble, conducted by John Wakefield, and Concert Band, directed by Richmond Sparks, in a free joint program at 8 p.m. in Tawes Theatre on Tuesday April 25.

For this concert the Symphonic Wind Ensemble will perform the first movement of Mozart's Bassoon Concerto, student Judith Disenza, soloist; Vaughan Williams' "Flourish for Wind Band" and a major piece by

Hindemith, "Concert Music for Wind Orchestra." The concert band will play "Scherzo for Band," an original band piece by Rossini—yes, the same one who composed all those operas. Also on their program is Jager's "Colonial Airs and Dances," and a new piece by John Heins of the Air Force band.

Another free concert will be given on Thursday April 27 by the University of Maryland Symphony Orchestra at 8 p.m. in Tawes Recital Hall. Conductor William Hudson will lead the group in Schubert's Symphony No. 4 and the Shostakovich Piano Concerto No. 1, with faculty members Roy Johnson as piano soloist and Emerson Head on trumpet.

One of the end-of-the-semester concerts to be specially anticipated comes during the day on Tuesday, May 2 at 12:30 p.m. in Tawes Recital Hall, when the student honors recital is presented. This is the chance to hear

the most talented of this year's student pianists, singers and instrumentalists perform—all free.

On May 4 Richard Wexler will conduct the Collegium Musicum in a concert of all-William Byrd music. Byrd, an unreconstructed Roman Catholic living in England during the reign of Elizabeth I, wrote liturgical music for both the Roman Catholic and Anglican churches, managing to stay out of trouble through the means of his beautiful music. The program will include music for both churches, as well as consort songs. Authentic period instruments, including a set of virginals, will be played in this interesting free concert.

Choral music of a different sort will be presented by the University Chorale, Roger Folstrom conductor, on Saturday, May 13 at 8 p.m. in the Center of Adult Education auditorium. Music in this free pops concert will be in a variety show format, featuring

choral and solo music by decades from the 1930s, through ballads of the 40s and on up to and including rock of the 80s—clearly something for everyone. ■

—Linda Freeman



Lyman Named Distinguished Clinician

Frank Lyman, coordinator of the Howard County/University of Maryland Teacher Education Center, recently received the Distinguished Clinician in Teacher Education Award, which is presented by the Association of Teacher Educators. Lyman has a joint appointment with the Office of Laboratory Experiences at UMCP and the Howard County Public Schools. The award recognizes those persons who work in a clinical environment to help teachers become better at what they do.

Schick Receives Waldo Prize

Allen Schick, director of the Bureau of Governmental Affairs in the School of Public Affairs, was the recent recipient of the Waldo Prize of the American Society for Public Administration for "outstanding contribution over a lifetime career." Schick, who came to UMCP in 1981, has a Guggenheim Fellowship for the 1988-89 year. He is writing a book on Congress while in residence at the Brookings Institution.

CLOSE UP

Crushed Crab Shells and Nematode Worms — Two Problems Forming One Elegant Solution

Crab processing plants have got a problem. Crab shells. Thousands of pounds of unwanted, unusable crab shells. Processors for years have been trying to find safe ways to dispose of the crab shells, but for the most part, they are dumped in land fills or in water where they can cause pollution.

Farmers have a problem, too. Worms. Microscopic nematode worms that damage the roots of crops and suck the life out of thousands of acres of plants. Currently, chemicals are often used to control the worms on large farms of crops such as vegetables. Small farmers and home gardeners have trouble using the chemicals, and many times they must simply watch their plants die.

Lorin Krusberg and James Kantzes, both professors of botany at UMCP, are hoping that the solutions to both of these problems might be intertwined in the problems themselves. Basically, they want to know if crab shells mixed into the soil can control these harmful worms.

"Crab processors have thousands of pounds of unwanted crab shells. Farmers have nematode worms they need to get rid of. We want to see if we can help both these groups," Krusberg says.

For many years, scientists have been hunting for ways to control nematode worms without using chemicals. Nematodes are tiny worms with such common names as the root-knot nematode, the lesion nematode and the cyst nematode. The worms strike

fear in the hearts of farmers as they strike the crops, decreasing yield and vigor and often killing the plants.

Researchers have known for a while that purified chitin (the main component in crab shells) can result in control of nematode worms in the soil. If



purified chitin will work at controlling the worms, then why not ground crab shells, which are made mostly of chitin?

Krusberg says that farmers in Taiwan have been tilling ground crab shells, also called crab meal, into their soil to control the worms for a few years now. So far, the crab shells appear to be doing the job. But the technique had never been field tested in this country until Krusberg, Kantzes and a company called Hoshosomerset in Crisfield, Md., that provides crab meal, began their experiments last spring.

With a grant from the Maryland Industrial Partnerships Program, Krusberg says they are looking at how well the crab meal can control nematodes in soybeans and examining its fertilizer value for such vegetables



as tomatoes, squash, cucumbers and snap beans.

"Mixing the ground crab shells into the soil to control the worms probably will be too expensive for cash crops such as soybeans, but if it will work with the soybeans, then it will work on just about anything," Krusberg explains.

Even if this technique is highly successful, farmers still will use chemicals for the many acres of cash crops. The crab meal will be most beneficial to low acre crops such as vegetables and for home gardeners. At this time, only professionals can apply the pesticides needed to control nematodes, making it costly and impractical for the weekend gardener.

Krusberg also points out that even if the crab shell technique were much less expensive, that there might not be enough crab shells to go around.

"Maryland currently produces several million pounds of crab shell waste per year," Krusberg says. "But to meet the demand of all farmers in the State, we would need about 30 million tons of crab shells each year."



And the amount of crab shell waste that Maryland has already is enough to cause problems. Dumping of crab shells in land fills or in water can cause pollution. Using the crab shells for fertilizer or nematode control is no threat to the environment because the shells are spread out over a large area, Krusberg says.

Krusberg says that the crab shells are not toxic to the nematode worms directly, but that they provide food for organisms that also feed on different stages of the nematodes, especially the eggs.

"The organisms that eat the crab shells build up their populations, and then when they run out of crab meal to eat, they start feeding on the nematodes," Krusberg explains. "Also, from Taiwan we're seeing a cumulative effect from one year to the next. You can apply the crab meal to the soil annually, and for over several years, the nematode populations will continue to decrease."

Krusberg says that the soil samples they took last summer showed mixed results on whether or not the crab shells were controlling the worms. They plan to continue their research this year using field microplots.

"We feel confident that this method can work, but we need to keep testing it for a while," he says. "We hope that the crab meal someday will provide farmers with a safe and natural way to control nematodes." ■

—Jan Barkley

Protecting Apple Trees Against Elusive Fire Blight

A bad case of fire blight is an apple farmer's worst nightmare.

Striking suddenly and unpredictably, fire blight is the most destructive of diseases that affect apple trees in the United States. The disease is caused by a bacterium, *Erwinia amylovora*, and about the only way to control it is with a good dose of antibiotics sprayed on the trees before the disease strikes.

To control fire blight, apple-tree growers currently use a "shot gun" approach with the antibiotic—spraying apple trees frequently during the blossoming period. But even with a full-spray program, fire blight epidemics still occur, and there is no way to cure the disease.

Paul Steiner, an associate professor of botany, has researched why some growing seasons have produced fierce epidemics despite the spraying, and why no disease occurs in some years even when no sprays are applied.

What he has discovered is that outbreaks of the disease depend on temperature and rainfall amounts. By

tracking the temperature, rainfall and cumulative heat units on a computer program called MARYBLYT, Steiner says he can tell farmers exactly when they should spray to prevent fire blight.

"The current recommendations for fire blight spraying are generally adequate but provide inconsistent disease control and lack the flexibility to be cost effective," Steiner explains. "We've developed MARYBLYT as a simple and very accurate way for farmers to determine when it's best to spray."

The MARYBLYT program identifies and tracks four types of fire blight: blossom blight, canker blight, shoot blight and trauma blight. Blossom blight is the most destructive in bearing orchards because it strikes the flowers, reducing the current year's crop and killing limbs that will bear next year's crop. It is the type of blight that is best controlled with antibiotics.

Canker blight symptoms develop on shoots and limbs near cankers established in the previous season. Shoot blight affects new growth on the branches and usually results from

bacteria being carried to young shoots via certain insects from earlier blossom or canker infections.

Canker blight is controlled mainly by cutting out the diseased parts during the winter. Farmers can reduce shoot blight using a well-timed combination treatment of the antibiotic and an insecticide.

Trauma blight occurs when the tree is injured such as with hail or late frosts, and there are few effective controls.

Steiner has found that specific conditions must occur for each type of fire blight epidemic to take place.

With blossom blight, for example, first, the blossoms must be open so that the bacteria can get into the flowers. Second, there must be a certain number of hours over 65° F for the bacteria to multiply. Next, it must rain, and then there must be at least one day with an average temperature of 60° F.

"All of these conditions have to occur in sequence during the blossoming period, which is about two weeks," Steiner explains. "Blossom

blight is so sporadic because of all these different factors. But if we see these events occurring and track them with the computer, then a farmer can know when to spray to prevent infection. Instead of routine shot-gun spraying, growers may not spray at all or use one to three sprays, depending on the weather."

Considering that it costs about \$40 per acre, per spray, to treat the trees three to four times per season, the MARYBLYT model allows farmers to treat only when needed, often saving them time and money, not to mention apple trees.

Steiner says that more tests need to be done to validate the model.

"The MARYBLYT program will be tested in about 10 states from Massachusetts to California and in Canada this year," he says. "Many of the tests will be in actual growers' orchards. We also are looking to adapt the basic MARYBLYT model for use with pears. Hopefully, within another year we can formally recommend this program for use by fruit growers." ■

—Jan Barkley

Interested in Taking a Walk to Ocean City?

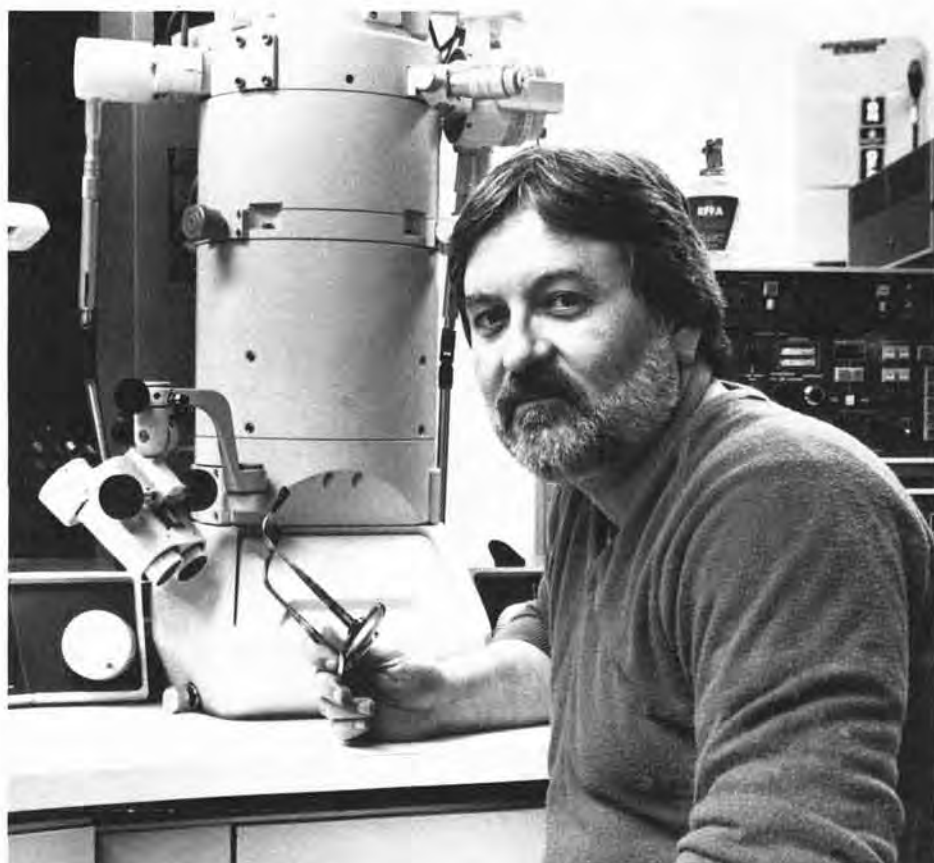
This spring the University of Maryland Fitness Walkers are headed for Ocean City. Fitness Walkers will be meeting weekdays at noon at the Armory. Walkers can walk inside or outside on marked courses in and around the UMCP campus. Mileage is earned cumulatively, and upon completion of 140 miles (distance from UMCP to Ocean City) walkers will be awarded a t-shirt. Anyone with a current faculty-staff or student registration card, along with the proper picture ID, can enter the Armory. Walkers can start anytime, but must finish by July 4. Registration is at the Campus Recreation Services Office (1104 Reckord Armory). For more information call 454-3124.

Graduate Student Volunteers Needed for New Mentor Program

Minority graduate students are needed as volunteers for a new mentor program designed to enhance the graduate student experience for minorities at UMCP. Developed by the Minority Graduate Advisory Council, the program will match entering graduate students with current graduate students in the same curriculum. Those interested in volunteering will be expected to attend a preparatory workshop on services and programs available for new graduate students. For further information, call Dario Cortes at 454-4408.

COLLEGE PARK PEOPLE

The Millionaire Mover of Microbiology



Greg Francis

When Greg Francis agreed two years ago to take the job of coordinator for the Department of Microbiology, he had no idea he would be coordinating one of the most important events in the department's history—the move to the new Microbiology Building.

From December 15, 1987 to January 15, 1988, Francis arranged for the department's offices, labs, and more than 200,000 pounds of equipment to be moved from Skinner Building to the remodeled Microbiology Building.

"I spent a good month wheeling things across the Mall," Francis adds.

Now that the move is finished, Francis' job is a little less taxing, but certainly still challenging, he says. As coordinator, he is responsible for everything from recently ordering a \$600,000 electron microscope for the department to making sure the toxic fume hoods in the labs are working properly.

"I don't think this department could function without Greg," says Frank Hetrick, professor of microbiology. "Everyone in this department depends on him."

Francis says he sort of happened into this job. After graduating with a degree in political science from Rutgers University and serving a year in the infantry in Vietnam, he worked for seven years as an auditor for the U.S. Accounting Office.

"I got turned off on the federal government after a while, so I went back to school and received a second bachelor's degree in microbiology from Maryland in 1985," he says. "The life sciences had always fascinated me."

After struggling with research in graduate school at Catholic University and UMCP, he decided that he might serve the biological sciences better as an administrator. He first became coordinator for the general microbiology laboratories and then took his present position a year later.

Even though Francis enjoys working at the university, he says he plans to retire early thanks to what he calls "the most remarkable experience of my life." On February 6, 1988, he won \$1.6 million in the Maryland State Lottery.

Francis says he had been a steady lottery player, buying five tickets each week for about two years. He still vividly remembers the day he won.

"I was in the basement of my townhouse watching an Andy Warhol movie, and I was in a bad mood that day. My father, who was upstairs watching television, saw the winning lottery numbers on TV, copied them down, and put the numbers on the kitchen table for me to look at later."

"Well, eventually I got bored with the movie and went upstairs to check my lottery numbers. I went through my tickets and noticed one that had four correct numbers. I went through the other tickets without success and went back to the one with the correct numbers. Then I noticed that the ticket had a fifth correct number. When I looked again and saw the sixth correct number, I went into shock, literally."

"I turned white as a ghost and started sweating profusely. I went back downstairs to my family and friends who were watching the movie and said, 'I just won the lottery.' They said sarcastically, 'Oh, right.' But when they saw how pale I was, they knew I must be serious. I'll tell you, winning the lottery certainly helped my mood that day."

Francis says his life has not changed that much since he won the lottery, including the fact that he still buys lottery tickets. The first thing he did when he won was buy a bigger house, new furniture and a piano.

"Music's my one hobby," he explains. "My first job was as a cocktail pianist at age 17. I worked my way through Rutgers playing piano in a rock band."

For now, Francis says he plans to save most of his winnings and continue to work at College Park.

"I enjoy the challenge of working here. Microbiology is a fascinating field to be involved in. It gets down to the nitty-gritty of what life is all about." ■

—Jan Barkley

Fax Technology Calls for New Etiquette

According to *The New York Times*' Peter H. Lewis, a new variation of The Golden Rule needs to be applied by owners of facsimile (fax) machines.

"Fax unto others as you would have others fax unto you," Lewis suggested recently in the newspaper's "Personal Computers" column.

According to Dorothy Chrismer, assistant director of the UMCP Department of Communication Services, there are currently at least 50 fax machines on the College Park campus.

As fax technology is invading offices, hotels, restaurants, airline terminals, homes and even UMCP departments, senders need to become sensitive to some of the social issues related to their use (or misuse).

Because fax machines must be left open to receive important documents that means that they are also open to unsolicited documents as well. And

when one document is coming in, all others are held up.

Lewis suggests that every transmission begin with a cover letter stating the sender's name, number of pages being sent, recipient's name and any other information that will help get the fax to the proper person, including a telephone number to call in case there is a problem with the transmission.

He also suggests phoning ahead "to get the rules of engagement, especially from people whom you plan to send faxes regularly." This, he says, conveys the impression that you take the process and the information to be sent, seriously.

And, if receivers decline to give their fax numbers, Lewis says, respect their wishes. "Some people buy fax machines in the spirit that it is better to transmit than to receive." ■

Campus Counseling Center — A Golden Oldie



John Holland, one of the nation's foremost experts on research in career development and vocational psychology, was among the special guests who helped the UMCP Counseling Center celebrate its 50th anniversary recently. He is pictured here with Acting Director Vivian Boyd, Assistant Director Robert Freeman, who chaired the 50th anniversary task force, and former Director Thomas McGoon. Other guests at the golden anniversary gathering included more than 150 former and current center employees and students who have been through its training program.

MIT's Leo Marx to Speak on Technology and American Literature

Leo Marx, a cultural historian who teaches at MIT's Science, Technology and Society program and who authored the book, *The Machine in the Garden: Technology and the Pastoral Ideal in America*, will deliver the last in this year's series of lectures titled Science and Technology in the Social Context. The lecture series is inaugurating efforts at UMCP to introduce an undergraduate certificate program in Science, Technology

and Society Studies. The lecture series is underwritten by the GET Foundation and the Office for Graduate Studies and Research. Marx will speak on "Technology and Classic American Literature" Monday, April 17 at 3:15 p.m. in the Art-Soc lecture theatre, room 2203. For more information contact James Wallace at 454-8862.

Physics Olympians are on Their Marks

For the physicsly-fit mind, events of Olympic proportions will soon support the natural laws. An Egg Drop Competition, a Mousetrap Distancer, a Solar Furnace, a Laser Bulls-eye requiring impeccable accuracy and a Mystery Event to mystify are some of the events of this year's Physics Olympics, sponsored by the Dept. of Physics and Astronomy.

The Physics Olympics is a UMCP outreach program that invites high schools in Maryland, northern Virginia and the District of Columbia to send teams of students to compete in physics related competitions. The Physics Olympics has been held annually since 1978.

This year's Olympics will be held Saturday, April 22 from 8:30 a.m. to 4:30 p.m. in the Physics Bldg. lecture

halls, the entire first and second floors of the Physics Bldg. and outside across from the new parking garage.

Each school is represented by a team of eight students competing in five required events and three optional events. Winners in each of the events are recognized as well as the overall first, second and third place team winners. This year the department plans to host 45 teams consisting of about 500 students, teachers and observers.

The event is free and spectators may drop by anytime during the day to see the events. Anyone interested in helping out with the Physics Olympics may call John W. Layman, director of the Science Teaching Center or Suzanne Currie at 454-5327. ■

Sammons to Speak as Scholar-Teacher

David Sammons, associate professor, Dept. of Agronomy, is the next Distinguished Scholar-Teacher Lecturer. His lecture, "Agriculture: Nature and Nurture," will be presented Monday, April 17 at 2 p.m. in the Arts-Sociology Bldg., room 2203. The next Distinguished Scholar-Teacher lecturer will be Alice Mignerey, associate professor, Dept. of Chemistry and Biotechnology. She will discuss "The Many Phases of Nuclei" on Friday, April 21 at 2 p.m. in the Art-Sociology Bldg., room 2203.

Faculty Guild to Hold Meeting

A forum on appointments, promotion and tenure, sponsored by the Faculty Guild and AAUP, will be held Friday, April 14 at 3 p.m. in room 1213 of the Art-Sociology Bldg. Speakers will be Richard H. Jaquith, assistant vice president; Rose-Marie G. Oster, Germanic and Slavic Languages; and Alan Pasch, Philosophy. Joseph Auslander, Mathematics, will moderate. A social hour will follow. Call 454-5005 for information.

Israeli Art to be Featured

An Israeli art show and sale featuring the works of many contemporary Israeli artists will be held April 11-18 at the Jewish Student Center. Call 422-6200 for information.

Bill Sponsored to Improve Grievance Procedures for Associate Staff

Delegates James Rosapepe (D-College Park) and Pauline Menes (D-College Park) are sponsors of a bill to improve current grievance procedures for associate staff employees at the

university. HB 1335 would extend to all associate staff employees third party review of grievances, a procedure currently available to classified employees.

"This bill is intended to establish a fairer way to resolve staff grievances," Delegates Rosapepe and Menes say. Grievance procedures deal with matters concerning discipline, alleged discrimination, promotion, assignment, and application of university rules.

Gannon Completes Thailand Assignment

Martin J. Gannon, professor of business administration, recently completed a five-month assignment in Thailand where he was a visiting scholar under the Fulbright Educational Exchange Program. The program, sponsored by the John F. Kennedy Foundation, is administered by the Bangkok-based Thailand-United States Educational Foundation.

Guidebook Available About UM System Services

The eleven campus University of Maryland System has produced a new guidebook listing hundreds of its services, resources, and experts available to both the campus and the wider community. The 225-page paperback features family, medical and counseling services; computers and help for business and industry; educational and cultural opportunities; and more. To order copies of the "Toward Closer Ties" guidebook at \$6 each, write: Office of Public Service, University of Maryland System, 3300 Metzger Road, Adelphi, Md. 20783, or call 454-3000.

AT&T to Develop Teaching Theater at UMCP

AT&T, with the assistance of UMCP, is developing a new teaching facility. The AT&T Teaching Theater will support innovative ways to provide lectures and seminars to undergraduate and graduate students.

According to Walter Gilbert, project manager, the teaching theater will be designed around the creative use of collaborative communications, and video and computing technologies. "It will also provide a facility for conducting research into new types of learning models and methods," he says.

The Dept. of Electrical Engineering is providing over 1,000 feet of space in the Electrical Engineering Bldg., room 3140 and some adjoining space, for the theater. This space will be extensively renovated.

"Detailed design and development of the theater are just beginning and plans call for its first use as a state-of-the-art classroom in the Fall of 1990," Gilbert says.

Preliminary design specifications call for: 18 desks on multiple tiers, each with a video monitor inset to permit good sight lines; an instructor's area with control over all equipment, the workstations, and room lighting; multiple presentation media including

at least two back-projection screens, an electronic keyboard, and video cameras—all integrated with the workstations; a separate area for additional control of the room and media; a high performance computer workstation for each desk; software that will provide basic instructional tools, such as student/student and student/instructor communications, as well as the ability to integrate specific applications pertinent to specific courses; and integration of the room into the campus network.

"While AT&T wants to particularly target Business, Computer Science and Engineering curricula, there is nothing in the planning for the theater that would preclude its effective use by any discipline," Gilbert says.

Gilbert and the steering committee for the project are seeking faculty who are interested in using the facility and contributing to its design and success. "When the room opens in 1990, it is essential to have several courses prepared to use it," Gilbert stresses.

Faculty of departments interested in further pursuing the AT&T Teaching Theater should call Gilbert at 454-2946. ■

Summer Ride-on Opportunity



The Equestrian Association on campus offers English riding lessons Spring, Summer and Fall to the campus community. Horses are owned by the university through donations. The first meeting of the association for the Summer term is June 6. Call Lynn Harpold at 454-8690 for information.

Robert Ethan Goodman